

STATE SAFETY DATA CAPABILITY ASSESSMENT

Webinar 1
March 9, 2011

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safety.fhwa.dot.gov/rsdp



Webinar 1 Agenda

- Welcome, Introductions and Webinar Purpose
- Project Overview
- Proposed Assessment Framework and Process
- Example Questionnaire
- Feedback

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Overview of the VHB Team

- VHB
 - Ms. Kim Eccles
 - Technical Director keccles@vhb.com
 - Mr. Mike Sawyer
 - Task Order Principal Investigator msawyer@vhb.com
 - Ms. Nancy Lefler
 - Project Manager, TWG Coordinator nlefler@vhb.com
- *Supported by:*
 - UNC – Highway Safety Research Center
 - Data Nexus Inc.
 - NAVIGATS, Inc
 - Dr. Forrest Council



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Webinar Purpose

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Webinar Purpose

- Provide update on project status
- Provide proposed assessment framework and process
- Obtain feedback
 - **Four areas and elements/subareas:**
 - *Are these the correct areas and elements to assess?*
 - **Five maturity levels for each element:**
 - *Are the maturity levels well defined and easily understood?*
 - **Questions for each element:**
 - *Are these questions meaningful?*

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Project Overview

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Project Overview

- Brand and Logo
- Objectives
- Communication and Outreach
- Current Status
- Pilot States
- Schedule

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Brand and Logo

ROADWAY SAFETY DATA PARTNERSHIP

COLLECTING • ANALYZING • MANAGING • EXPANDING

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Objectives

- To create and carry out a process to assess each State's roadway data capabilities.
- To create a current baseline for each State and the Nation.
- To identify gaps and where States would like to be.
- To propose actions to move each State and the Nation forward in safety data analysis.

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Communication and Outreach

- Website
- Project Summary Sheet
- Engaging:
 - Technical Working Groups
 - FHWA Division Offices
 - NHTSA Regions
 - States
 - Communities of Interest



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Proposed Website

ROADWAY SAFETY
DATA PARTNERSHIP

COLLECTING • ANALYZING • MANAGING • EXPANDING

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In an effort to expand its relationship with the States, FHWA has initiated the Roadway Safety Data Partnership. Its purpose is to develop a better understanding of the current capabilities and conditions of safety data collection in all States and to help States improve those capabilities.

Click on a State below to see the current status for each State:

Or, select a state from the list:

Assessor to be scheduled

Assessor scheduled

Assessor completed

For more information, please contact:

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Working with various national partners, FHWA aims to move the nation forward in safety data analysis and to create a national data capability baseline.

Using a consistent and systematic assessment process, the Partnership will provide each State with a customized assessment of their current roadway data capabilities. States will also receive guidance and technical assistance throughout the process in order to overcome gaps and integrate improvements into their overall safety plans.

Investment in roadway safety saves lives

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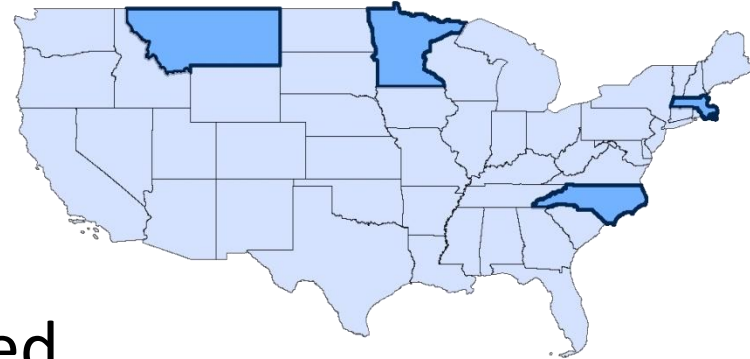
Current Status

- Draft Assessment Process is under review
- Pilot States have been selected
- Existing State resources being collected
- Outreach initiatives underway
- Potential funding source summary underway

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Pilot States

- Massachusetts - Urban
 - Minnesota - Locally-maintained
 - Montana - Rural
 - North Carolina - State-maintained
-
- To be assessed in March and April



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Schedule

- Pilot State Results
- Mid-Point Report
- Final Report

Webinar 2 – May 10, 2011

Webinar 3 – August 30, 2011

Webinar 4 – July 10, 2012



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Proposed Assessment Framework and Process

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Overview of Assessment Process



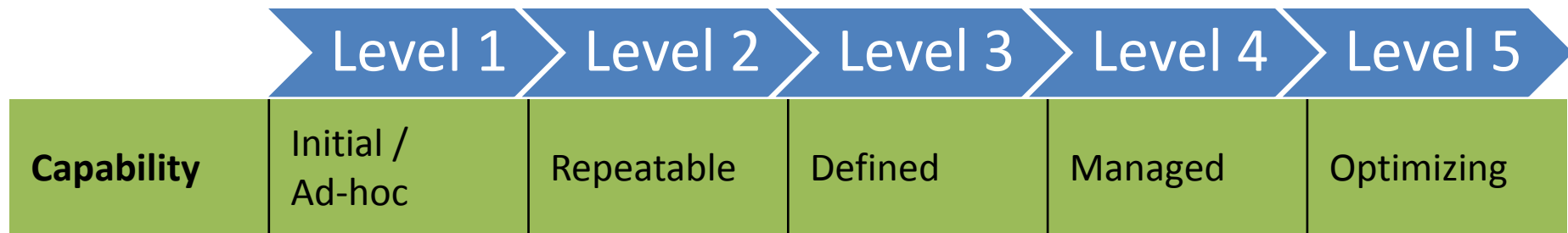
- Lead Assessor assigned to each State
- Defendable, repeatable, consistent process



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Capability Maturity Model

- Systematic, objective assessment (not judgment)
- Five-point scale - less to more mature
- Each State will be placed in one of the five levels
- Provides FHWA quantitative results
- Provides State qualitative level and recommendations for moving to next level



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Assessment Framework

- Focus Areas
- Subareas/Elements
 - Each will have maturity level criteria
 - Key questions for Assessor to determine level
 - Modular – can stand alone or be combined
- Scoring to achieve overall capability level
- Additional qualitative questions
 - Desired level of the State
 - Key barriers
 - Resources/tools that would be beneficial to the State

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Questionnaire

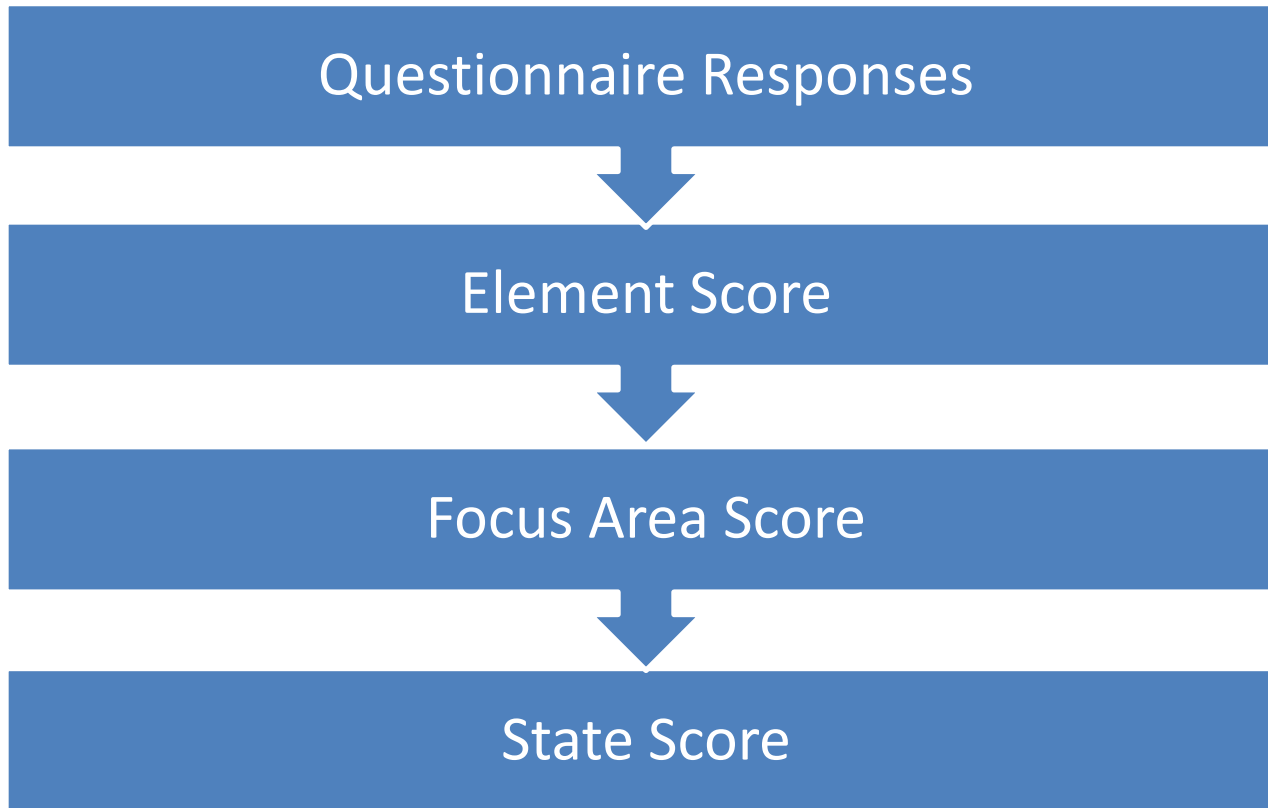
- Key questions developed to determine maturity level for each element
- Questionnaire will be web-based = “Assess-inar”
- Completed by project team based on resources prior to assessinar (reduce burden to the State)
- States review and provide feedback during assessinar
- Determine if site visit is needed

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EXAMPLE - QUESTIONNAIRE

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Scoring Overview



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Consistency

- Consistent process and scoring criteria to assess each State...
 - Expert Lead Assessors
 - Questionnaire
 - Pilot State testing
 - Common thread – TOPI
 - Attends every assessment
 - Errors corrected immediately
 - Continuous improvement



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Focus Areas

- Area 1: Roadway Data Collection/Technical Standards
- Area 2: Data Analysis, Tools and Uses
- Area 3: Data Management and Governance
- Area 4: Data Interoperability and Expandability

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Key Area 1 Elements

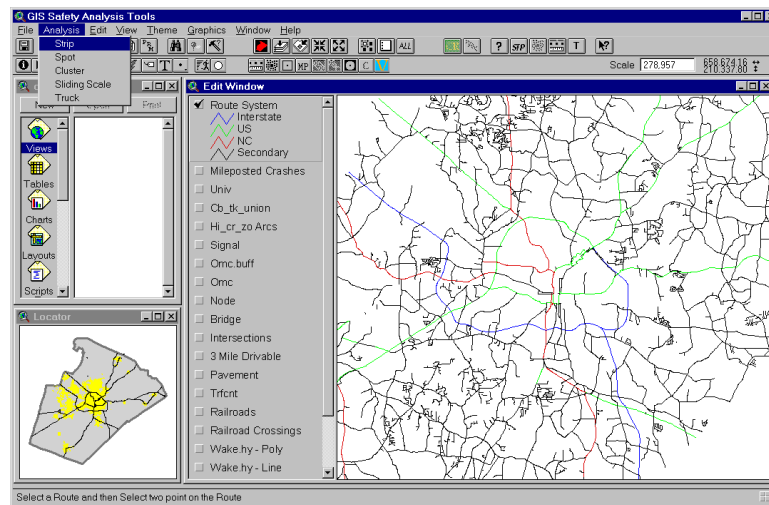
- **Roadway Data Collection/ Technical Standards**
 - Coverage
 - Schedule
 - Verification
 - Uniformity/Consistency
- Each element will look at data categories: roadway segments, intersections, interchanges, ramps, curves, and grades



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Key Area 2 Elements

- **Data Analysis, Tools and Uses**
 - Network Screening
 - Method
 - Data
 - Coverage
 - Diagnosis
 - Countermeasure Selection
 - Evaluation
 - Project
 - Program
 - Accessibility



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Key Area 3 Elements

- **Data Management and Governance**
 - People
 - Policies
 - Technology



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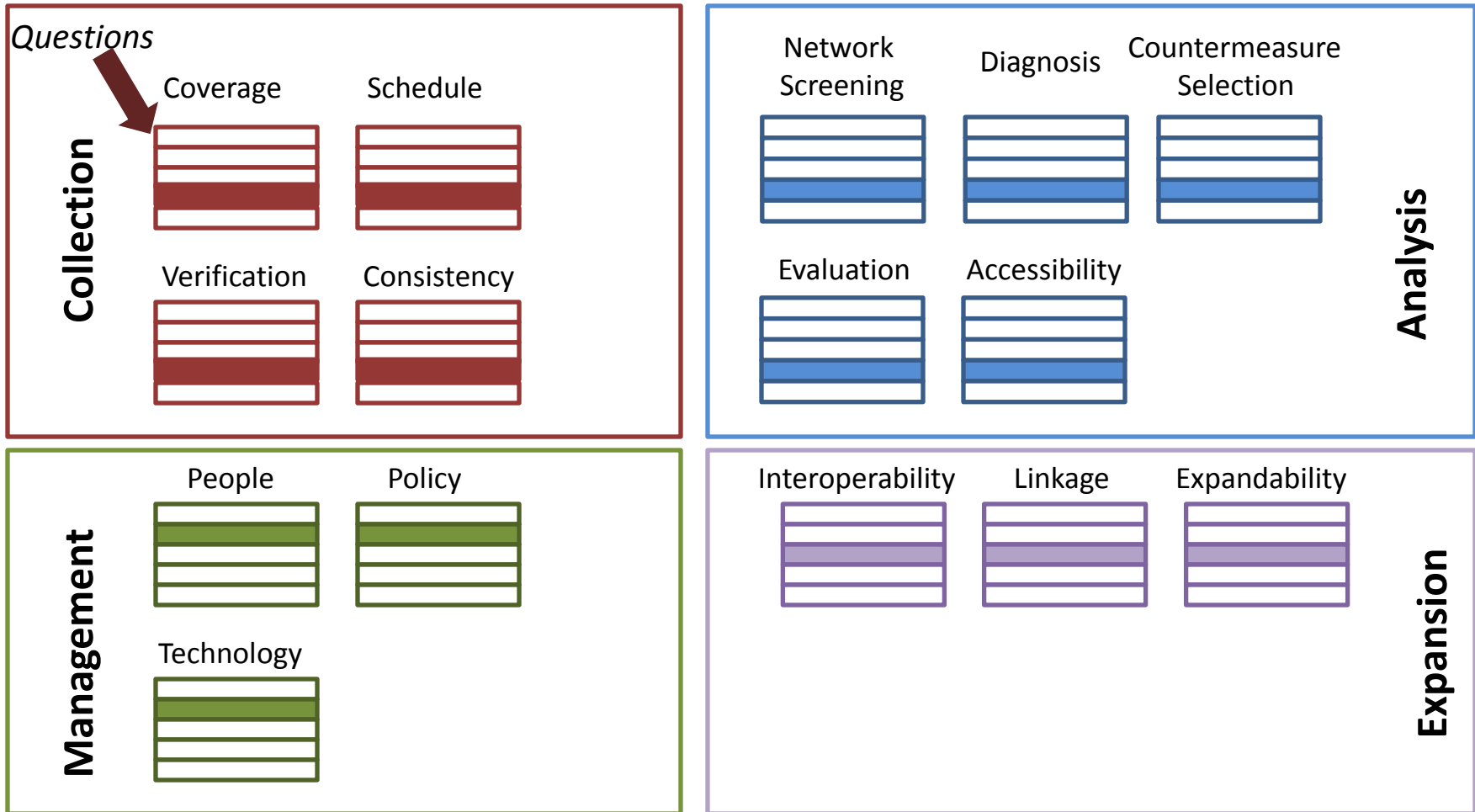
Key Area 4 Elements

- **Data Interoperability and Expandability**
 - Expandability
 - Linkage
 - Interoperability



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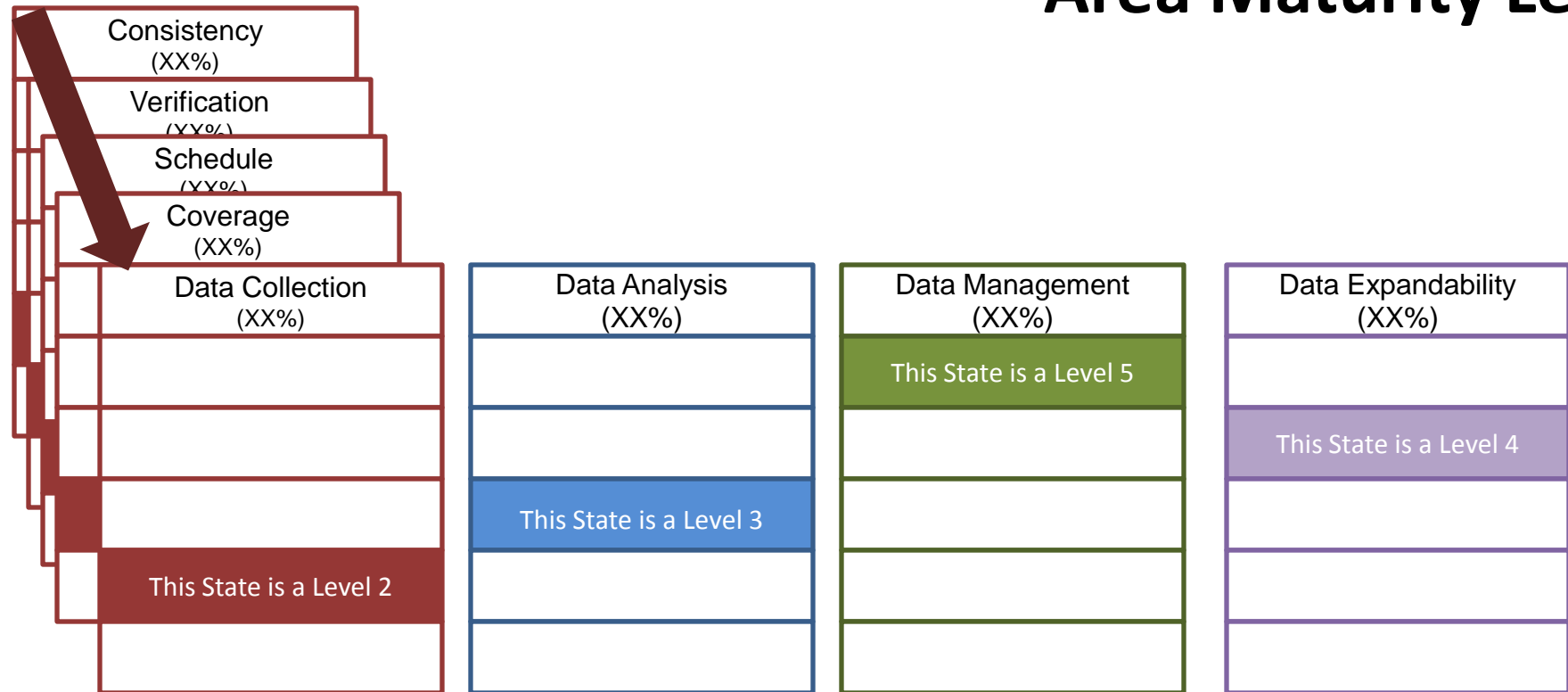
Element Maturity Level



Apply Checkpoints and Dependencies

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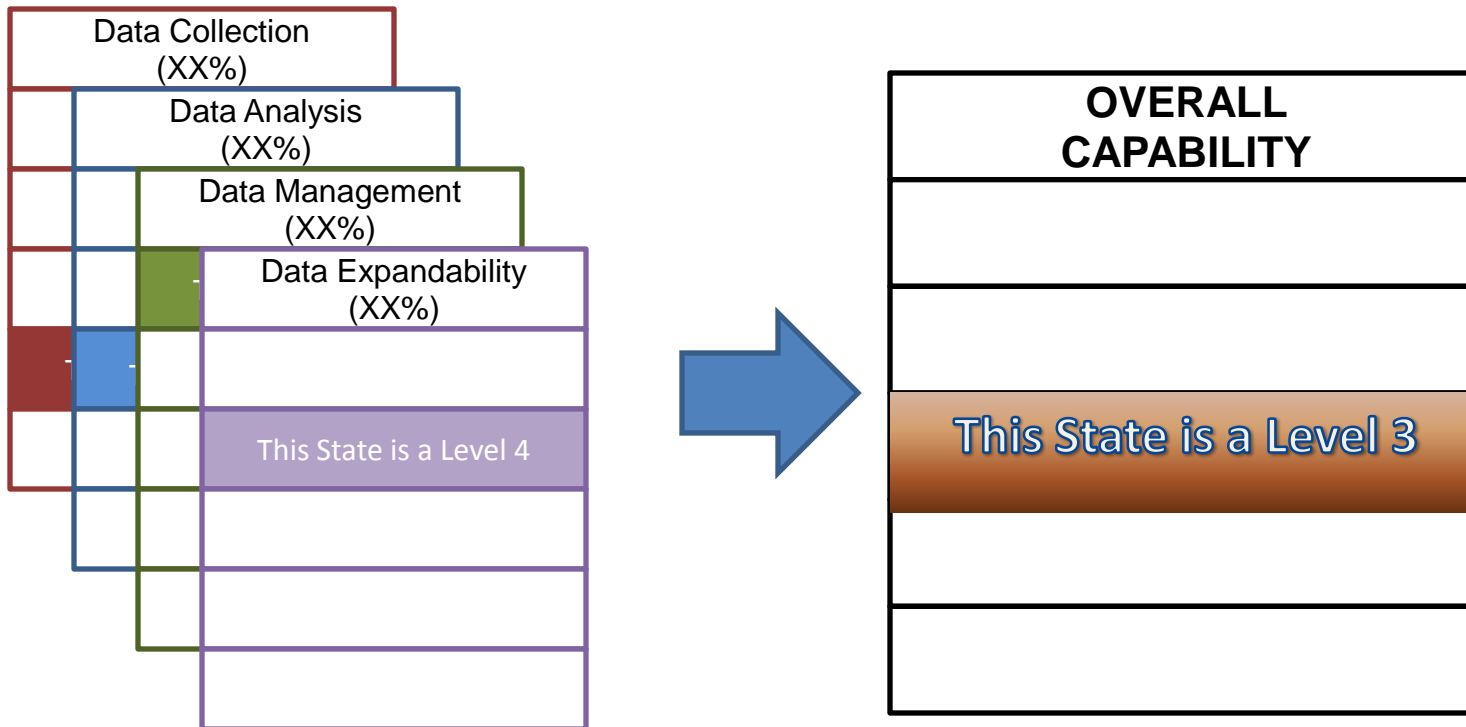
Area Maturity Level



Apply Checkpoints and Dependencies

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State Data Capability Maturity Level



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FEEDBACK

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Feedback – Areas and Elements

- **Four areas and elements/subareas:**
 - *Are these the correct areas and elements to assess?*
 - *Would these areas and elements have meaning once they are established and assessed?*
 - *Are there any missing?*
 - *Are there too many?*

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Feedback – Maturity Levels

- **Five maturity levels for each element:**
 - *Are the maturity levels well defined and easily understood?*
 - *Will the levels help a State understand where they are and where they would like to be?*

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Feedback - Questions

- Questions for under each element:
 - *Are these questions meaningful?*
 - *Are they too specific or overly broad?*
 - *Will they assist our lead assessors in determining the appropriate maturity level?*

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Ways to Provide Additional Feedback

| | | |
|------------------------|-------|------------------------------------------------------------------------------|
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Website: www.safety.fhwa.dot.gov/roadwaydata



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